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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/642,715	08/18/2003	William Michael Steiner	24-NS-132937	4388	
7590 03/02/2004			EXAM	EXAMINER	
John S. Beulick			RICHARDSON, JOHN A		
Armstrong Teasdale LLP Suite 2600			ART UNIT	PAPER NUMBER	
One Metropolitan Square			3641		
St. Louis, MO 63102			DATE MAILED: 03/02/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	()(()				
•	10/642,715	STEINER ET AL.	O.				
Office Action Summary	Examiner	Art Unit					
	John Richardson	3641					
The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence ad	ldress				
Period for Reply	VIO OET TO EVDIDE AMONTU	(O) EDOM					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be t y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	imely filed ys will be considered timel in the mailing date of this c ED (35 U.S.C. § 133).	y. ommunication.				
Status							
1) Responsive to communication(s) filed on 18 A	<u>ugust 2003</u> .						
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)[_] The oath or declaration is objected to by the Ex	caminer. Note the attached Offic	e Action or form P	10-152.				
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority document							
2. Certified copies of the priority document	• •		Stone				
3. Copies of the certified copies of the prior	·	ved in this National	Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachment(s)	~~						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summai Paper No(s)/Mail I						
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal		O-152)				
Paper No(s)/Mail Date <u>08-18-03</u> .	6)						

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DETAILED ACTION

Non Final Rejection

1). The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2). The disclosure is objected to because of the following informalities:
 - Specification, page 2, [0006], 'provides' should read 'provided'
 - Figures 2-3, do not show items 78 -HCU's- described on pages 6, 8 of the Specification.

Appropriate correction is required.

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3). Claims 1 to 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Steiner et al (U.S. 6,650,722).

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The reference discloses a boiling water reactor (BWR) nuclear system for control rod actuation comprising a control rod drive system (RDCS-item 70), hydraulic control rod drive units (items 78), a control processor (item 72), a plurality of transponder cards (items 76) arranged in clusters as disclosed in Figure 3, said transponder cards controlled by branch amplifier cards (items 74) as shown in Figure 3, said branch amplifier cards receives and resends commands form the said processor (item 72) as described in Column 3, lines 32-53, a AC voltage downstream from the transponder cards as described in Column 4, lines 50-60, Column 6, lines 53-58, Column 8, lines 42-48, Column 10, lines 19-28, a transponder trouble information connected to said transponders, items 76, as described in Column 7, lines 23-43, relating to claims 2-3, 8-9, 14-15, the reference discloses the said branch amplifier cards, items 74, are configured to accept command words (CMD) upstream / downstream and in a reverse manner downstream / upstream (see Column 3, lines 33-61), and to compare / differentiate said command words (CMD) as stated in Column 4, lines 21-39, relating to claims 4-5, 10-11, 16-17, the reference discloses the means to receive and buffer said command (CMD) words as a single command address upstream of the said transponder cards, items 76 as stated in Column 4, lines 21-26, and relating to claims 6, 12, 18, the reference discloses that the acknowledge words (ACK) are configured to compare any signal from the said transponder cards (items 76) which are as shown in

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Figure 3, downstream from the said amplifier cards (items 74) and in the manner

described in Column 4, lines 21-45.

4). The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

5). Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John Richardson whose telephone number is (703) 305

0764. The examiner can normally be reached on Monday to Thursday from 7.00 AM to

4.30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone, can be reached on (703) 306 4198. The fax phone number

for the organization where this application or proceeding is assigned is (703) 305 7687.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308

1113.

John Richardson, PE,

February 24 2004.

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SUPERVISORY PATENT EXAMINER

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